Carr

WEST Search History

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DATE: Sunday, July 11, 2004

Hide?	Set Name	Query	Hit Count
		DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR	
☐	L8	carr-robin.in.	0
☐	L7	carr.in.	6065
☐	L6	L1 and L5	78
☐	L5	(cleavable or cleaved or cleave or cleavage) same (ionization or ionizable or ionisable or ionisation)	776
☐	L4	(cleavable or cleaved or cleave or cleavage) same (ionization adj tag)	0
☐	L3	(cleavable or cleaved or cleave or cleavage) same(ionization adj tag)	0
☐	L2	(cleavable or cleaved or cleave or cleavage) with (ionization adj tag)	0
☐	L1	MALDI and (solid adj phase adj synthesis)	578

END OF SEARCH HISTORY

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Search Results - Record(s) 1 through 50 of 78 returned.

☐ 1. Document ID: US 20040115694 A1

Using default format because multiple data bases are involved.

L6: Entry 1 of 78 File: PGPB Jun 17, 2004

PGPUB-DOCUMENT-NUMBER: 20040115694
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040115694 A1

TITLE: Methods and compositions for determining the sequence of nucleic acid molecules

PUBLICATION-DATE: June 17, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Van Ness, Jeffrey	Claremont	CA	US	
Tabone, John C.	Bothell	WA	US	
Howbert, J. Jeffry	Bellevue	WA	US	
Mulligan, John T.	Seattle	WA	US	

US-CL-CURRENT: 435/6

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 2. Document ID: US 20040106129 A1

L6: Entry 2 of 78 File: PGPB Jun 3, 2004

PGPUB-DOCUMENT-NUMBER: 20040106129
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040106129 A1

TITLE: Mass spectrometric methods for biomolecular screening

PUBLICATION-DATE: June 3, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Crook, Stanley T.	Carlsbad	CA	US	
Griffey, Richard	Vista	CA	US	
Hofstadler, Steven	Oceanside	CA	US	

US-CL-CURRENT: 435/6; 702/20

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 3. Document ID: US 20040096907 A1

L6: Entry 3 of 78 File: PGPB May 20, 2004

PGPUB-DOCUMENT-NUMBER: 20040096907
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040096907 A1

TITLE: Quantification of beta amyloid

PUBLICATION-DATE: May 20, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bohrmann, Bernd	Freiburg	DE	US	
Doebeli, Heinz	Ziefen		CH	
Ducret, Axel	Riehen		CH	
Guentert, Andreas	Boeckten		CH	

US-CL-CURRENT: 435/7.1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 4. Document ID: US 20040077090 A1

L6: Entry 4 of 78 File: PGPB Apr 22, 2004

PGPUB-DOCUMENT-NUMBER: 20040077090
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040077090 A1

TITLE: Whole cell engineering by mutagenizing a substantial portion of a starting genome, combining mutations, and optionally repeating

PUBLICATION-DATE: April 22, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Short, Jay M.	Rancho Santa Fe	CA	US	

US-CL-CURRENT: 435/471; 435/252.3, 435/254.2

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 5. Document ID: US 20040033525 A1

L6: Entry 5 of 78 File: PGPB Feb 19, 2004

PGPUB-DOCUMENT-NUMBER: 20040033525
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040033525 A1

TITLE: Releasable nonvolatile mass-label molecules

PUBLICATION-DATE: February 19, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Monforte, Joseph A.	Berkeley	CA	US	
Becker, Christopher H.	Palo Alto	CA	US	
Pollart, Daniel J.	Menlo Park	CA	US	
Shaler, Thomas A.	Menlo Park	CA	US	

US-CL-CURRENT: 435/6

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 6. Document ID: US 20030232758 A1

L6: Entry 6 of 78 File: PGPB Dec 18, 2003

PGPUB-DOCUMENT-NUMBER: 20030232758
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030232758 A1

TITLE: Immunological methods and compositions for the treatment of Alzheimer's disease

PUBLICATION-DATE: December 18, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
St. George-Hyslop, Peter H.	Toronto		CA	
McLaurin, JoAnne	Toronto		CA	

US-CL-CURRENT: 514/12; 435/320.1, 435/325, 435/69.1, 530/324, 536/23.1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 7. Document ID: US 20030228274 A1

L6: Entry 7 of 78 File: PGPB Dec 11, 2003

PGPUB-DOCUMENT-NUMBER: 20030228274
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030228274 A1

TITLE: Polyamide chains of precise length

PUBLICATION-DATE: December 11, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Rose, Keith	Geneva		CH	

US-CL-CURRENT: 424/78.37; 528/297

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 8. Document ID: US 20030219830 A1

L6: Entry 8 of 78 File: PGPB Nov 27, 2003

PGPUB-DOCUMENT-NUMBER: 20030219830
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030219830 A1

TITLE: Methods of evaluating glycomolecules for enhanced activities

PUBLICATION-DATE: November 27, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Venkataraman, Ganesh	Bedford	MA	US	
Shriver, Zachary	Boston	MA	US	
Sasisekharan, Ram	Cambridge	MA	US	

US-CL-CURRENT: 435/7.1; 435/68.1, 530/395, 536/53

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 9. Document ID: US 20030215425 A1

L6: Entry 9 of 78 File: PGPB Nov 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030215425
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030215425 A1

TITLE: Epitope synchronization in antigen presenting cells

PUBLICATION-DATE: November 20, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Simard, John J. L.	Northridge	CA	US	
Diamond, David C.	West Hills	CA	US	

US-CL-CURRENT: 424/93.7; 424/85.1, 424/85.2, 435/372, 514/44, 536/23.1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 10. Document ID: US 20030175819 A1

L6: Entry 10 of 78 File: PGPB Sep 18, 2003

PGPUB-DOCUMENT-NUMBER: 20030175819
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030175819 A1

TITLE: Methods for identifying modulators of apoptosis

PUBLICATION-DATE: September 18, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Reed, John C.	Rancho Santa Fe	CA	US	
Guo, Bin	San Diego	CA	US	

US-CL-CURRENT: 435/7.2; 424/9.2

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 11. Document ID: US 20030138866 A1

L6: Entry 11 of 78 File: PGPB Jul 24, 2003

PGPUB-DOCUMENT-NUMBER: 20030138866
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030138866 A1

TITLE: Novel Osp-C derived peptide fragments

PUBLICATION-DATE: July 24, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Mathiesen, Marianne Jartved	Hellerup		DK	
Theisen, Michael	Frederiksberg C		DK	
Holm, Arne	Holte		DK	
Ostergaard, Soren	Copenhagen N		DK	

US-CL-CURRENT: 435/7.32

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 12. Document ID: US 20030135031 A1

L6: Entry 12 of 78 File: PGPB Jul 17, 2003

PGPUB-DOCUMENT-NUMBER: 20030135031
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030135031 A1

TITLE: Purification of polypeptides

PUBLICATION-DATE: July 17, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Rose, Keith	Geneva		CH	
Villain, Matteo	Geneva		CH	
Vizzanova, Jean	Geneva		CH	

US-CL-CURRENT: 530/417

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 13. Document ID: US 20030129589 A1

L6: Entry 13 of 78 File: PGPB Jul 10, 2003

PGPUB-DOCUMENT-NUMBER: 20030129589
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030129589 A1

TITLE: DNA DIAGNOSTICS BASED ON MASS SPECTROMETRY

PUBLICATION-DATE: July 10, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
KOSTER, HUBERT	LA JOLLA	CA	US	
LOUGH, DAVID M.	BERWICKSHIRE	CA	GB	
XIANG, GOUBING	SAN DIEGO		US	

US-CL-CURRENT: 435/6; 422/68.1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 14. Document ID: US 20030096281 A1

L6: Entry 14 of 78 File: PGPB May 22, 2003

PGPUB-DOCUMENT-NUMBER: 20030096281
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030096281 A1

TITLE: Methods of making glycomolecules with enhanced activities and uses thereof

PUBLICATION-DATE: May 22, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Venkataraman, Ganesh	Bedford	MA	US	
Sasisekharan, Ram	Cambridge	MA	US	
Shriver, Zachary	Boston	MA	US	

US-CL-CURRENT: 435/6; 435/101, 435/91.2, 536/123, 536/23.1, 702/20

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 15. Document ID: US 20030077595 A1

L6: Entry 15 of 78 File: PGPB Apr 24, 2003

PGPUB-DOCUMENT-NUMBER: 20030077595
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030077595 A1

TITLE: Methods and compositions for enhancing sensitivity in the analysis of biological-based assays

PUBLICATION-DATE: April 24, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Van Ness, Jeffrey	Seattle	WA	US	
Tabone, John C.	Bothell	CA	US	
Howbert, J. Jeffry	Bellevue	WA	US	
Mulligan, John T.	Seattle	WA	US	

US-CL-CURRENT: 435/6; 205/777.5, 435/7.9

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 16. Document ID: US 20030044864 A1

L6: Entry 16 of 78 File: PGPB Mar 6, 2003

PGPUB-DOCUMENT-NUMBER: 20030044864
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030044864 A1

TITLE: Cellular engineering, protein expression profiling, differential labeling of peptides, and novel reagents therefor

PUBLICATION-DATE: March 6, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Short, Jay M.	Rancho Santa Fe	CA	US	
Latterich, Martin	San Diego	CA	US	
Wei, Jing	San Diego	CA	US	
Levin, Michael	San Diego	CA	US	

US-CL-CURRENT: 435/7.23; 702/19

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 17. Document ID: US 20030022225 A1

L6: Entry 17 of 78 File: PGPB Jan 30, 2003

PGPUB-DOCUMENT-NUMBER: 20030022225
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030022225 A1

TITLE: Releasable nonvolatile mass-label molecules

PUBLICATION-DATE: January 30, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Monforte, Joseph A.	Berkeley	CA	US	
Becker, Christopher H.	Palo Alto	CA	US	
Pollart, Daniel J.	Menlo Park	CA	US	
Shaler, Thomas A.	Menlo Park	CA	US	

US-CL-CURRENT: 435/6; 435/7.1, 525/10, 530/324, 536/23.1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 18. Document ID: US 20030017483 A1

L6: Entry 18 of 78 File: PGPB Jan 23, 2003

PGPUB-DOCUMENT-NUMBER: 20030017483
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030017483 A1

TITLE: Modulation of molecular interaction sites on RNA and other biomolecules

PUBLICATION-DATE: January 23, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Ecker, David J.	Encinitas	CA	US	
Griffey, Richard	Vista	CA	US	

Crooke, Stanley T.	Carlsbad	CA	US
Sampath, Ranga	San Diego	CA	US
Swayze, Eric	Carlsbad	CA	US
Mohan, Venkatraman	Carlsbad	CA	US
Hofstadler, Steven	Oceanside	CA	US

US-CL-CURRENT: 435/6; 702/20, 703/11

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. De

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☐ 19. Document ID: US 20020182601 A1

L6: Entry 19 of 78 File: PGPB Dec 5, 2002

PGPUB-DOCUMENT-NUMBER: 20020182601
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020182601 A1

TITLE: Method and reagents for analyzing the nucleotide sequence of nucleic acids

PUBLICATION-DATE: December 5, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Sampson, Jeffrey R.	Burlingame	CA	US	
Myerson, Joel	Berkeley	CA	US	
Tsalenko, Anna M.	Chicago	IL	US	
Sampas, Nicholas M.	San Jose	CA	US	
Webb, Peter G.	Menlo Park	CA	US	
Yakhini, Zohar H.	Zikhron Ya'Acov		IL	

US-CL-CURRENT: 435/6; 536/23.2, 536/24.3

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. De

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☐ 20. Document ID: US 20020169282 A1

L6: Entry 20 of 78 File: PGPB Nov 14, 2002

PGPUB-DOCUMENT-NUMBER: 20020169282
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020169282 A1

TITLE: Solid phase native chemical ligation of unprotected or N-terminal cysteine protected peptides in aqueous solution

PUBLICATION-DATE: November 14, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47

Canne, Lynne	Pacifica	CA	US
Kent, Stephen B.H.	San Francisco	CA	US
Simon, Reyna J.	Los Gatos	CA	US

US-CL-CURRENT: 530/334

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 21. Document ID: US 20020165383 A1

L6: Entry 21 of 78 File: PGPB Nov 7, 2002

PGPUB-DOCUMENT-NUMBER: 20020165383
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020165383 A1

TITLE: Tenebrio antifreeze proteins

PUBLICATION-DATE: November 7, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Graham, Laurie A.	Kingston		CA	
Liou, Yih-Cherng	Kingston		CA	
Walker, Virginia K.	Sydenham		CA	
Davies, Peter L.	Kingston		CA	

US-CL-CURRENT: 536/23.5; 435/320.1, 435/325, 435/69.1, 530/350

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 22. Document ID: US 20020142955 A1

L6: Entry 22 of 78 File: PGPB Oct 3, 2002

PGPUB-DOCUMENT-NUMBER: 20020142955
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020142955 A1

TITLE: Enzyme-cleavable prodrug compounds

PUBLICATION-DATE: October 3, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Dubois, Vincent	Fleurus	CA	BE	
Fernandez, Anne Marie	Brussels	CA	BE	
Gangwar, Sanjeev	Alameda	CA	US	
Lewis, Evan	Daly City	CA	US	

Lobl, Thomas J.	Foster City	CA	US
Nieder, Matthew H.	Burlingame	CA	US
Pickford, Lesley B.	Menlo Park		US
Trouet, Andre	Herent		BE
Yarranton, Geoffrey T.	Burlingame		US

US-CL-CURRENT: 514/12; 514/13, 514/14, 514/15, 514/16, 514/17, 530/324, 530/326, 530/327, 530/328

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 23. Document ID: US 20020132975 A1

L6: Entry 23 of 78 File: PGPB Sep 19, 2002

PGPUB-DOCUMENT-NUMBER: 20020132975
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020132975 A1

TITLE: Solid phase native chemical ligation of unprotected or N-terminal cysteine protected peptides in aqueous solution

PUBLICATION-DATE: September 19, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Canne, Lynne	Pacifica	CA	US	
Kent, Stephen B.H.	San Francisco	CA	US	
Simon, Reyna J.	Los Gatos	CA	US	

US-CL-CURRENT: 530/324

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 24. Document ID: US 20020119456 A1

L6: Entry 24 of 78 File: PGPB Aug 29, 2002

PGPUB-DOCUMENT-NUMBER: 20020119456
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020119456 A1

TITLE: Methods and compositions for determining the sequence of nucleic acid molecules

PUBLICATION-DATE: August 29, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Ness, Jeffrey Van	Seattle	WA	US	

Tabone, John C.	Bothell	WA	US
Howbert, J. Jeffry	Bellevue	WA	US
Mulligan, John T.	Seattle	WA	US

US-CL-CURRENT: 435/6; 250/282

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 25. Document ID: US 20020102572 A1

L6: Entry 25 of 78 File: PGPB Aug 1, 2002

PGPUB-DOCUMENT-NUMBER: 20020102572
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020102572 A1

TITLE: Mass spectrometric methods for biomolecular screening

PUBLICATION-DATE: August 1, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Crooke, Stanley T.	Carlsbad	CA	US	
Griffey, Richard	Vista	CA	US	
Hofstadler, Steven	Oceanside	CA	US	

US-CL-CURRENT: 435/6; 702/20

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 26. Document ID: US 20020086443 A1

L6: Entry 26 of 78 File: PGPB Jul 4, 2002

PGPUB-DOCUMENT-NUMBER: 20020086443
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020086443 A1

TITLE: Magnetic in situ dilution

PUBLICATION-DATE: July 4, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Bamdad, Cynthia C.	Newton	MA	US	

US-CL-CURRENT: 436/526

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 27. Document ID: US 20020068301 A1

L6: Entry 27 of 78 File: PGPB Jun 6, 2002

PGPUB-DOCUMENT-NUMBER: 20020068301
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020068301 A1

TITLE: CYCLIC PEPTIDE LIBRARIES AND METHODS OF USE THEREOF TO IDENTIFY BINDING MOTIFS

PUBLICATION-DATE: June 6, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
LAI, HUNG-SEN	BOSTON	MA	US	
YAFFE, MICHAEL B.	SOMERVILLE	MA	US	
SONGYANG, ZHOU	BROOKLINE	MA	US	
CARRAWAY, KERMIT L. III	WATERTOWN	MA	US	
CANTLEY, LEWIS C.	CAMBRIDGE	MA	US	

US-CL-CURRENT: 435/7.1; 435/194

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 28. Document ID: US 20020042112 A1

L6: Entry 28 of 78 File: PGPB Apr 11, 2002

PGPUB-DOCUMENT-NUMBER: 20020042112
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020042112 A1

TITLE: DNA DIAGNOSTICS BASED ON MASS SPECTROMETRY

PUBLICATION-DATE: April 11, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
KOSTER, HUBERT	LA JOLLA	CA	US	
LITTLE, DANIEL P.	BOSTON	MA	US	
BRAUN, ANDREAS	SAN DIEGO	CA	US	
LOUGH, DAVID M.	BERWICKSHIRE	CA	GB	
XIANG, GUOBING	SAN DIEGO		US	
VAN DEN BOOM, DIRK	HAMBURG		DE	
JURINKE, CHRISTIAN	HAMBURG		DE	
RUPPERT, ANDREAS	LINDEN		DE	

US-CL-CURRENT: 435/174; 435/6, 435/91.53, 536/23.1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 29. Document ID: US 20010038070 A1

L6: Entry 29 of 78 File: PGPB Nov 8, 2001

PGPUB-DOCUMENT-NUMBER: 20010038070
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20010038070 A1

TITLE: Multiplex sequence variation analysis of DNA samples by mass spectrometry

PUBLICATION-DATE: November 8, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Hausch, Felix	Stanford	CA	US	
Jaschke, Andres	Berlin		DE	

US-CL-CURRENT: 250/288

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 30. Document ID: US 20010018511 A1

L6: Entry 30 of 78 File: PGPB Aug 30, 2001

PGPUB-DOCUMENT-NUMBER: 20010018511
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20010018511 A1

TITLE: INHIBITORS OF THE INTERACTION BETWEEN P53 AND MDM2

PUBLICATION-DATE: August 30, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
LANE, DAVID	FIFE		GB	
BOTTGER, VOLKER	GERMERING		DE	
BOTTGER, ANGELIKA	GERMERING		DE	
PICKSLEY, STEVEN MICHAEL	BRADFORD		GB	
HOCHKEPPEL, HEINZ-KURT	AESCH		CH	
GARCIA-ECHEVERRIA, CARLOS	BASEL		CH	
CHENE, PATRICK	MULHOUSE		FR	
FURET, PASCAL	THANN		FR	

US-CL-CURRENT: 536/24.5; 435/375, 435/377, 435/6, 435/7.1, 530/300, 530/326, 530/327, 530/328, 530/333, 536/24.1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 31. Document ID: US 6747130 B2

L6: Entry 31 of 78 File: USPT Jun 8, 2004

US-PAT-NO: 6747130
DOCUMENT-IDENTIFIER: US 6747130 B2

TITLE: Tenebrio antifreeze proteins

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 32. Document ID: US 6716634 B1

L6: Entry 32 of 78 File: USPT Apr 6, 2004

US-PAT-NO: 6716634
DOCUMENT-IDENTIFIER: US 6716634 B1

TITLE: Increasing ionization efficiency in mass spectrometry

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 33. Document ID: US 6716574 B2

L6: Entry 33 of 78 File: USPT Apr 6, 2004

US-PAT-NO: 6716574
DOCUMENT-IDENTIFIER: US 6716574 B2

TITLE: Osp-C derived peptide fragments

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 34. Document ID: US 6699668 B1

L6: Entry 34 of 78 File: USPT Mar 2, 2004

US-PAT-NO: 6699668
DOCUMENT-IDENTIFIER: US 6699668 B1

TITLE: Mass label linked hybridisation probes

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 35. Document ID: US 6664372 B1

L6: Entry 35 of 78 File: USPT Dec 16, 2003

US-PAT-NO: 6664372
DOCUMENT-IDENTIFIER: US 6664372 B1

TITLE: Azatide peptidomimetics

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWMC | Draw De

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☐ 36. Document ID: US 6656690 B2

L6: Entry 36 of 78 File: USPT Dec 2, 2003

US-PAT-NO: 6656690
DOCUMENT-IDENTIFIER: US 6656690 B2

TITLE: Mass spectrometric methods for biomolecular screening

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWMC | Draw De

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☐ 37. Document ID: US 6635452 B1

L6: Entry 37 of 78 File: USPT Oct 21, 2003

US-PAT-NO: 6635452
DOCUMENT-IDENTIFIER: US 6635452 B1
**** See image for Certificate of Correction ****

TITLE: Releasable nonvolatile mass label molecules

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWMC | Draw De

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☐ 38. Document ID: US 6623928 B2

L6: Entry 38 of 78 File: USPT Sep 23, 2003

US-PAT-NO: 6623928
DOCUMENT-IDENTIFIER: US 6623928 B2

TITLE: Methods and compositions for determining the sequence of nucleic acid molecules

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWMC | Draw De

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☐ 39. Document ID: US 6613508 B1

L6: Entry 39 of 78 File: USPT Sep 2, 2003

US-PAT-NO: 6613508

DOCUMENT-IDENTIFIER: US 6613508 B1

TITLE: Methods and compositions for analyzing nucleic acid molecules utilizing sizing techniques

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 40. Document ID: US 6602662 B1

L6: Entry 40 of 78 File: USPT Aug 5, 2003

US-PAT-NO: 6602662
DOCUMENT-IDENTIFIER: US 6602662 B1

TITLE: DNA diagnostics based on mass spectrometry

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 41. Document ID: US 6589485 B2

L6: Entry 41 of 78 File: USPT Jul 8, 2003

US-PAT-NO: 6589485
DOCUMENT-IDENTIFIER: US 6589485 B2
**** See image for Certificate of Correction ****

TITLE: Solid support for mass spectrometry

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 42. Document ID: US 6558902 B1

L6: Entry 42 of 78 File: USPT May 6, 2003

US-PAT-NO: 6558902
DOCUMENT-IDENTIFIER: US 6558902 B1

TITLE: Infrared matrix-assisted laser desorption/ionization mass spectrometric analysis of macromolecules

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 43. Document ID: US 6555692 B1

L6: Entry 43 of 78 File: USPT Apr 29, 2003

US-PAT-NO: 6555692
DOCUMENT-IDENTIFIER: US 6555692 B1

TITLE: Preparation and use of bifunctional molecules having DNA sequence binding

specificity

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 44. Document ID: US 6552167 B1

L6: Entry 44 of 78 File: USPT Apr 22, 2003

US-PAT-NO: 6552167
DOCUMENT-IDENTIFIER: US 6552167 B1
**** See image for Certificate of Correction ****

TITLE: Polyamide chains of precise length

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 45. Document ID: US 6506906 B1

L6: Entry 45 of 78 File: USPT Jan 14, 2003

US-PAT-NO: 6506906
DOCUMENT-IDENTIFIER: US 6506906 B1

TITLE: Preparation and use of bifunctional molecules having DNA sequence binding specificity

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 46. Document ID: US 6500621 B2

L6: Entry 46 of 78 File: USPT Dec 31, 2002

US-PAT-NO: 6500621
DOCUMENT-IDENTIFIER: US 6500621 B2
**** See image for Certificate of Correction ****

TITLE: DNA diagnostics based on mass spectrometry

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 47. Document ID: US 6495314 B1

L6: Entry 47 of 78 File: USPT Dec 17, 2002

US-PAT-NO: 6495314
DOCUMENT-IDENTIFIER: US 6495314 B1

TITLE: Process for characterizing proteins

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 48. Document ID: US 6472537 B1

L6: Entry 48 of 78 File: USPT Oct 29, 2002

US-PAT-NO: 6472537
DOCUMENT-IDENTIFIER: US 6472537 B1
** See image for Certificate of Correction **

TITLE: Polyamides for binding in the minor groove of double stranded DNA

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 49. Document ID: US 6428956 B1

L6: Entry 49 of 78 File: USPT Aug 6, 2002

US-PAT-NO: 6428956
DOCUMENT-IDENTIFIER: US 6428956 B1

TITLE: Mass spectrometric methods for biomolecular screening

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 50. Document ID: US 6428955 B1

L6: Entry 50 of 78 File: USPT Aug 6, 2002

US-PAT-NO: 6428955
DOCUMENT-IDENTIFIER: US 6428955 B1
** See image for Certificate of Correction **

TITLE: DNA diagnostics based on mass spectrometry

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS

Terms	Documents
L1 and L5	78

Display Format: - Change Format

Previous Page Next Page Go to Doc#

WEST Search History

Hide Items | Restore | Clear | Cancel

DATE: Sunday, July 11, 2004

Hide?	Set Name	Query	Hit Count
		DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR	
☐	L6	L1 and L5	78
☐	L5	(cleavable or cleaved or cleave or cleavage) same (ionization or ionizable or ionisable or ionisation)	776
☐	L4	(cleavable or cleaved or cleave or cleavage) same (ionization adj tag)	0
☐	L3	(cleavable or cleaved or cleave or cleavage) same(ionization adj tag)	0
☐	L2	(cleavable or cleaved or cleave or cleavage) with (ionization adj tag)	0
☐	L1	MALDI and (solid adj phase adj synthesis)	578

END OF SEARCH HISTORY

Hit List

Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS

Search Results - Record(s) 51 through 78 of 78 returned.

☐ 51. Document ID: US 6392024 B1

Using default format because multiple data bases are involved.

L6: Entry 51 of 78 File: USPT May 21, 2002

US-PAT-NO: 6392024
DOCUMENT-IDENTIFIER: US 6392024 B1

TITLE: Tenebrio antifreeze proteins

DATE-ISSUED: May 21, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Graham; Laurie A.	Kingston			CA
Liou; Yih-Cherng	Kingston			CA
Walker; Virginia K.	Sydenham			CA
Davies; Peter L.	Kingston			CA

US-CL-CURRENT: 536/23.5; 435/252.3, 435/254.11, 435/254.21, 435/254.22, 435/320.1, 435/6, 536/23.1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 52. Document ID: US 6387628 B1

L6: Entry 52 of 78 File: USPT May 14, 2002

US-PAT-NO: 6387628
DOCUMENT-IDENTIFIER: US 6387628 B1
** See image for Certificate of Correction **

TITLE: Mass spectrometric detection of polypeptides

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 53. Document ID: US 6329146 B1

L6: Entry 53 of 78 File: USPT Dec 11, 2001

US-PAT-NO: 6329146
DOCUMENT-IDENTIFIER: US 6329146 B1

**** See image for Certificate of Correction ****

TITLE: Mass spectrometric methods for biomolecular screening

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 54. Document ID: US 6326468 B1

L6: Entry 54 of 78 File: USPT Dec 4, 2001

US-PAT-NO: 6326468
DOCUMENT-IDENTIFIER: US 6326468 B1

TITLE: Solid phase native chemical ligation of unprotected or n-terminal cysteine protected peptides in aqueous solution

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 55. Document ID: US 6322970 B1

L6: Entry 55 of 78 File: USPT Nov 27, 2001

US-PAT-NO: 6322970
DOCUMENT-IDENTIFIER: US 6322970 B1
**** See image for Certificate of Correction ****

TITLE: Mass spectrometric detection of polypeptides

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 56. Document ID: US 6312893 B1

L6: Entry 56 of 78 File: USPT Nov 6, 2001

US-PAT-NO: 6312893
DOCUMENT-IDENTIFIER: US 6312893 B1
**** See image for Certificate of Correction ****

TITLE: Methods and compositions for determining the sequence of nucleic acid molecules

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 57. Document ID: US 6310180 B1

L6: Entry 57 of 78 File: USPT Oct 30, 2001

US-PAT-NO: 6310180
DOCUMENT-IDENTIFIER: US 6310180 B1

TITLE: Method for synthesis of proteins

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 58. Document ID: US 6300076 B1

L6: Entry 58 of 78 File: USPT Oct 9, 2001

US-PAT-NO: 6300076
DOCUMENT-IDENTIFIER: US 6300076 B1

TITLE: DNA diagnostics based on mass spectrometry

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 59. Document ID: US 6277573 B1

L6: Entry 59 of 78 File: USPT Aug 21, 2001

US-PAT-NO: 6277573
DOCUMENT-IDENTIFIER: US 6277573 B1
** See image for Certificate of Correction **

TITLE: DNA diagnostics based on mass spectrometry

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 60. Document ID: US 6268144 B1

L6: Entry 60 of 78 File: USPT Jul 31, 2001

US-PAT-NO: 6268144
DOCUMENT-IDENTIFIER: US 6268144 B1
** See image for Certificate of Correction **

TITLE: DNA diagnostics based on mass spectrometry

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 61. Document ID: US 6268131 B1

L6: Entry 61 of 78 File: USPT Jul 31, 2001

US-PAT-NO: 6268131
DOCUMENT-IDENTIFIER: US 6268131 B1
** See image for Certificate of Correction **

TITLE: Mass spectrometric methods for sequencing nucleic acids

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 62. Document ID: US 6265559 B1

L6: Entry 62 of 78 File: USPT Jul 24, 2001

US-PAT-NO: 6265559
DOCUMENT-IDENTIFIER: US 6265559 B1

TITLE: PNA synthons

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 63. Document ID: US 6258538 B1

L6: Entry 63 of 78 File: USPT Jul 10, 2001

US-PAT-NO: 6258538
DOCUMENT-IDENTIFIER: US 6258538 B1
** See image for Certificate of Correction **

TITLE: DNA diagnostics based on mass spectrometry

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 64. Document ID: US 6238871 B1

L6: Entry 64 of 78 File: USPT May 29, 2001

US-PAT-NO: 6238871
DOCUMENT-IDENTIFIER: US 6238871 B1
** See image for Certificate of Correction **

TITLE: DNA sequences by mass spectrometry

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 65. Document ID: US 6235478 B1

L6: Entry 65 of 78 File: USPT May 22, 2001

US-PAT-NO: 6235478
DOCUMENT-IDENTIFIER: US 6235478 B1
** See image for Certificate of Correction **

TITLE: DNA diagnostics based on mass spectrometry

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 66. Document ID: US 6225450 B1

L6: Entry 66 of 78 File: USPT May 1, 2001

US-PAT-NO: 6225450
DOCUMENT-IDENTIFIER: US 6225450 B1
**** See image for Certificate of Correction ****

TITLE: DNA sequencing by mass spectrometry

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 67. Document ID: US 6221605 B1

L6: Entry 67 of 78 File: USPT Apr 24, 2001

US-PAT-NO: 6221605
DOCUMENT-IDENTIFIER: US 6221605 B1
**** See image for Certificate of Correction ****

TITLE: DNA diagnostics based on mass spectrometry

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 68. Document ID: US 6221601 B1

L6: Entry 68 of 78 File: USPT Apr 24, 2001

US-PAT-NO: 6221601
DOCUMENT-IDENTIFIER: US 6221601 B1

TITLE: DNA diagnostics based on mass spectrometry

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 69. Document ID: US 6197498 B1

L6: Entry 69 of 78 File: USPT Mar 6, 2001

US-PAT-NO: 6197498
DOCUMENT-IDENTIFIER: US 6197498 B1
**** See image for Certificate of Correction ****

TITLE: DNA diagnostics based on mass spectrometry

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 70. Document ID: US 6194144 B1

L6: Entry 70 of 78 File: USPT Feb 27, 2001

US-PAT-NO: 6194144
DOCUMENT-IDENTIFIER: US 6194144 B1
**** See image for Certificate of Correction ****

TITLE: DNA sequencing by mass spectrometry

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 71. Document ID: US 6143932 A

L6: Entry 71 of 78 File: USPT Nov 7, 2000

US-PAT-NO: 6143932
DOCUMENT-IDENTIFIER: US 6143932 A

TITLE: Selectively N-alkylated peptidomimetic combinatorial libraries and compounds therein

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 72. Document ID: US 6063569 A

L6: Entry 72 of 78 File: USPT May 16, 2000

US-PAT-NO: 6063569
DOCUMENT-IDENTIFIER: US 6063569 A

TITLE: Methods for automated synthesis of PNA-DNA chimeras and compositions thereof

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 73. Document ID: US 6043031 A

L6: Entry 73 of 78 File: USPT Mar 28, 2000

US-PAT-NO: 6043031
DOCUMENT-IDENTIFIER: US 6043031 A
**** See image for Certificate of Correction ****

TITLE: DNA diagnostics based on mass spectrometry

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 74. Document ID: US 6027890 A

L6: Entry 74 of 78 File: USPT Feb 22, 2000

US-PAT-NO: 6027890
DOCUMENT-IDENTIFIER: US 6027890 A
** See image for Certificate of Correction **

TITLE: Methods and compositions for enhancing sensitivity in the analysis of biological-based assays

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 75. Document ID: US 5830655 A

L6: Entry 75 of 78 File: USPT Nov 3, 1998

US-PAT-NO: 5830655
DOCUMENT-IDENTIFIER: US 5830655 A

TITLE: Oligonucleotide sizing using cleavable primers

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 76. Document ID: US 5700642 A

L6: Entry 76 of 78 File: USPT Dec 23, 1997

US-PAT-NO: 5700642
DOCUMENT-IDENTIFIER: US 5700642 A

TITLE: Oligonucleotide sizing using immobilized cleavable primers

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 77. Document ID: US 5691141 A

L6: Entry 77 of 78 File: USPT Nov 25, 1997

US-PAT-NO: 5691141
DOCUMENT-IDENTIFIER: US 5691141 A
** See image for Certificate of Correction **

TITLE: DNA sequencing by mass spectrometry

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 78. Document ID: US 5547835 A

L6: Entry 78 of 78 File: USPT Aug 20, 1996

US-PAT-NO: 5547835
DOCUMENT-IDENTIFIER: US 5547835 A

TITLE: DNA sequencing by mass spectrometry

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS

Terms	Documents
L1 and L5	78

Display Format: - Change Format

Previous Page Next Page Go to Doc#

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NEWS	3	May 12	EXTEND option available in structure searching
NEWS	4	May 12	Polymer links for the POLYLINK command completed in REGISTRY
NEWS	5	May 27	New UPM (Update Code Maximum) field for more efficient patent SDIs in CAplus
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NEWS	8	Jun 28	Additional enzyme-catalyzed reactions added to CASREACT
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=> MALDI and (solid(w)phase(w)synthesis)
MALDI IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> s MALDI and (solid(w)phase(w)synthesis)
L1 231 MALDI AND (SOLID(W) PHASE(W) SYNTHESIS)

=>

=> s cleavable or cleaved or cleave or cleavage) and (ionization or ionizable or
ionisable or ionisation)
UNMATCHED RIGHT PARENTHESIS 'CLEAVAGE) AND'
The number of right parentheses in a query must be equal to the
number of left parentheses.

=> s (cleavable or cleaved or cleave or cleavage) and (ionization or ionizable or
ionisable or ionisation)
L2 7987 (CLEAVABLE OR CLEAVED OR CLEAVE OR CLEAVAGE) AND (IONIZATION OR
IONIZABLE OR IONISABLE OR IONISATION)

=> s l1 and l2
L3 22 L1 AND L2

=> dup rem
ENTER L# LIST OR (END):l3
PROCESSING COMPLETED FOR L3
L4 17 DUP REM L3 (5 DUPLICATES REMOVED)

=> d l4 bib abs 1-17

L4 ANSWER 1 OF 17 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN
AN 2003-697277 [66] WPIDS
DNC C2003-191571
TI **Solid phase synthesis** useful for
synthesizing high-fidelity oligonucleotides, comprises capping the ends of
a double stranded DNA and cleaving at or near a Watson-Crick base pair
mismatch.
DC A89 B04 D16 L03
IN BECKER, F F; GASCOYNE, P R; VYKOUKAL, D; GASCOYNE, P R C
PA (TEXA) UNIV TEXAS SYSTEM
CYC 102
PI WO 2003057924 A1 20030717 (200366)* EN 24
RW: AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IT KE LS
LU MC MW MZ NL OA PT SD SE SI SK SL SZ TR TZ UG ZM ZW
W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK
DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR
KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT
RO RU SC SD SE SG SK SL TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA
ZM ZW
US 2003171325 A1 20030911 (200367)
AU 2003207448 A1 20030724 (200421)
ADT WO 2003057924 A1 WO 2003-US180 20030103; US 2003171325 A1 Provisional US

2002-345099P 20020104, US 2003-336610 20030103; AU 2003207448 A1 AU 2003-207448 20030103

FDT AU 2003207448 A1 Based on WO 2003057924

PRAI US 2002-345099P 20020104; US 2003-336610 20030103

AN 2003-697277 [66] WPIDS

AB WO2003057924 A UPAB: 20031014

NOVELTY - Solid-phase oligonucleotide synthesis (M1) comprising capping the ends of a double stranded DNA (dsDNA) consisting of sense and antisense oligonucleotides, cleaving the dsDNA at or near a Watson-Crick base pair mismatch and digesting the uncapped dsDNA, is new.

DETAILED DESCRIPTION - Solid-phase oligonucleotide synthesis (M1) comprising:

(a) synthesizing a sense and an antisense oligonucleotide;

(b) annealing the sense and antisense oligonucleotides to form double stranded DNA (dsDNA);

(c) capping the ends of the dsDNA;

(d) cleaving the dsDNA, where **cleavage** occurs at or near a Watson-Crick base pair mismatch; and

(e) digesting the uncapped dsDNA, is new.

INDEPENDENT CLAIMS are also included for:

(1) forming long polynucleotides (M2) comprising:

(a) synthesizing a first proofread dsDNA by employing the steps of M1;

(b) synthesizing a second proofread dsDNA; and

(c) ligating the first proofread DNA with the second proofread DNA to form a long polynucleotide;

(2) an apparatus for performing M1; and

(3) an apparatus for performing M2.

USE - M1 is useful for synthesizing high-fidelity oligonucleotides (claimed), which may be used as probes, or in medical diagnostics, life sciences, and the pharmaceutical industry. The sequences produced may be used as synthetic genes and synthetic chromosomes to direct protein synthesis in living systems, or for information storage in devices such as molecular computers.

ADVANTAGE - M1 is used to synthesize high purity short oligonucleotides with fewer errors and eliminates the need for inefficient HPLC or other cleanup.

Dwg.0/3

L4 ANSWER 2 OF 17 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN

AN 2003:567097 BIOSIS

DN PREV200300568401

TI **Solid-phase synthesis** of core 2 O-linked glycopeptide and its enzymatic sialylation.

AU Takano, Yutaka; Kojima, Naoya; Nakahara, Yuko; Hojo, Hironobu; Nakahara, Yoshiaki [Reprint Author]

CS Department of Applied Biochemistry, Institute of Glycotechnology, Tokai University, 1117 Kitakaname, Hiratsuka-shi, Kanagawa, 259-1292, Japan yonak@keyaki.cc.u-tokai.ac.jp

SO Tetrahedron, (13 October 2003) Vol. 59, No. 42, pp. 8415-8427. print. ISSN: 0040-4020 (ISSN print).

DT Article

LA English

ED Entered STN: 3 Dec 2003

Last Updated on STN: 3 Dec 2003

AB The core 2-type tetrasaccharide building blocks (1a/1b) for **solid -phase synthesis** of glycopeptide were synthesized via stereaselective glycosylation of the disaccharyl Ser/Thr (3a/3b) with a glycosyl fluoride (2) carrying the 2-trichloroacetamido group that was readily converted into a 2-acetamido group by reduction. A segment of glycoprotein leukosialin (215-224) was synthesized by the solid-phase protocol, the building block (1b) being utilized. **Cleavage** of the synthetic glycopeptide from resin was effected with reagent K and subsequent treatment of the product with a cocktail for the 'low-acidity

TfOH' facilitated complete removal of the benzyl groups with minimum loss of glycosidic linkages. To the deprotected glycopeptide (21), were enzymatically introduced N-acetylneuraminic acid (sialic acid) residues in remarkably high efficiency by using the specific sialyltransferases.

L4 ANSWER 3 OF 17 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2003:324010 CAPLUS
DN 139:100670
TI A Novel and Rapid Encoding Method Based on Mass Spectrometry for "One-Bead-One-Compound" Small Molecule Combinatorial Libraries
AU Song, Aimin; Zhang, Jinhua; Lebrilla, Carlito B.; Lam, Kit S.
CS Division of Hematology and Oncology Department of Internal Medicine, UC Davis Cancer Center, Sacramento, CA, 95817, USA
SO Journal of the American Chemical Society (2003), 125(20), 6180-6188
CODEN: JACSAT; ISSN: 0002-7863
PB American Chemical Society
DT Journal
LA English
OS CASREACT 139:100670
AB A method for the preparation and encoding of readily deconvoluted combinatorial libraries is discussed. Beads are prepared with topol. segregated regions - an inner region to which is bound coding tags and an outer segment to which the library compound is bound. Coding blocks are attached to the inner resin by a **cleavable** methionine-containing linker; the coding blocks are chosen to have similar reactivities to the building blocks incorporated in the synthesis of the combinatorial library. Synthesis of the library leads to the functionalization of the library-containing portion of the resin bead and the coding portion of the resin bead. **Cleavage** of the linkers for the coding blocks from the resin bead by Edman degradation with cyanogen bromide yields lactones whose mass is determined by FT-**MALDI** mass spectroscopy. Anal. of the lactones isolated from a given bead yields the mass of each of the fragments present; by careful choice of coding blocks and reactants, the identities of the building blocks incorporated into a library bead and of the library member attached to that bead can be readily derived from the fragment masses. A combinatorial library is prepared and tested for the binding of library members to streptavidin; seventeen of the compds. are found to bind strongly to streptavidin by a colorometric assay and identified unambiguously by the library encoding method described here.
RE.CNT 61 THERE ARE 61 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

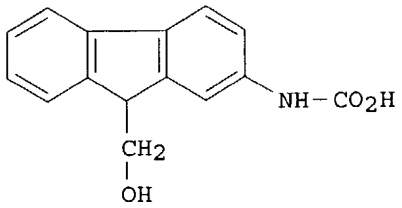
L4 ANSWER 4 OF 17 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN
AN 2003:352461 SCISEARCH
GA The Genuine Article (R) Number: 669ZK
TI A versatile approach towards regioselective platinated DNA sequences
AU Heetebrij R J; de Kort M; Meeuwenoord N J; den Dulk H; van der Marel G A; Van Boom J H (Reprint); Reedijk J
CS Leiden Univ, Leiden Inst Chem, Gorlaeus Labs, Program 9502, NL-2300 RA Leiden, Netherlands (Reprint); Leiden Univ, Leiden Inst Chem, Gorlaeus Labs, NL-2300 RA Leiden, Netherlands
CYA Netherlands
SO CHEMISTRY-A EUROPEAN JOURNAL, (14 APR 2003) Vol. 9, No. 8, pp. 1823-1827.
Publisher: WILEY-V C H VERLAG GMBH, PO BOX 10 11 61, D-69451 WEINHEIM, GERMANY.
ISSN: 0947-6539.
DT Article; Journal
LA English
REC Reference Count: 30
ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS
AB Undesired N-7 platination of 2'-deoxyguanosine residues at predetermined sites in an oligodeoxynucleotide (ODN) sequence is prevented by applying the sterically demanding diphenylcarbamoyl (DPC) as an

O-6-protecting group. The presence of a base-labile oxalyl linker between the immobilized 3'-nucleotide and controlled pore glass (CPG) allows **cleavage** of the protected ODN from the support and leaves DPC protection unaffected. This method provides an ODN with specifically blocked guanine-N-7 sites for platination. In the hexanucleotides prepared in this study, 5'-GGBGGT-3'(for B = T, C and A), a platinum GG adduct is introduced at G4,G5. These site-specific platinated hexamers were isolated in a yield of 65%, and were fully characterized by using reversed-phase HPLC (high performance liquid chromotography), LCMS (liquid chromatography-mass spectrometry), **MALDI**-TOF MS (matrix-assisted laser desorption/**ionization** time-of-flight mass spectrometry), PAGE (polyacrylamide gel electrophoresis) and Maxam-Gilbert sequencing analysis.

L4 ANSWER 5 OF 17 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2003:453923 CAPLUS
DN 139:396154
TI Towards the standard-module approach to disulfide-linked polypeptide nanostructures. I. Methodological prerequisites and mass spectrometric characterization of the test two-loop structure
AU Mirgorodskaya, O. A.; Haselmann, K. F.; Kjeldsen, F.; Zubarev, R. A.; Roepstorff, P.
CS Department of Chemistry, University of Southern Denmark, Odense, Den.
SO European Journal of Mass Spectrometry (2003), 9(2), 139-148
CODEN: EJMSCL; ISSN: 1469-0667
PB IM Publications
DT Journal
LA English
AB Potentially biol.-active nanostructures can be created from single chains of unmodified peptides by crosslinking different regions of the chain by disulfide bonds and cleaving the chain at specified sites to obtain the final configuration. The availability of techniques for assembly and characterization of such structures was tested on a two-loop structure created from a 21-residue linear peptide. Directed intra-mol. disulfide bond formation was performed by inserting partial sequences favoring intra-mol. S-S bond formation ("loops") separated by partial sequences disfavoring such a process ("spacers") into the precursor sequence. Peptide bond **cleavage** by partial acid hydrolysis at specific sites (GG, NP/DP) inside the loops opened them; the same process in the spacer separated the loops. Synthesis, oxidation and bond **cleavage** were monitored by matrix-assisted laser desorption/**ionization** time-of-flight mass spectrometry (**MALDI** ToF MS). The hydrolysis fragments of the produced nanostructures were characterized by tandem electrospray **ionization** Fourier transform mass spectrometry (ESI FT-MS) with collisional and electron capture dissocns. The latter technique was especially useful as it cleaves S-S bonds preferentially. The feasibility of the proposed synthesis approach and the adequacy of the anal. techniques for the test structure were demonstrated.
RE.CNT 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 6 OF 17 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:768751 CAPLUS
DN 138:4807
TI A New Method for the Preparation of Unprotected Peptides on Biocompatible Resins with Application in Combinatorial Chemistry
AU Pastor, Jose J.; Fernandez, Irene; Rabanal, Francesc; Giralt, Ernest
CS Institut de Recerca Biomedica de Barcelona Parc Cientific de Barcelona, Universitat de Barcelona, Barcelona, 08028, Spain
SO Organic Letters (2002), 4(22), 3831-3833
CODEN: ORLEF7; ISSN: 1523-7060
PB American Chemical Society
DT Journal
LA English

OS CASREACT 138:4807
GI



I

AB A synthetic strategy for the preparation of side chain free (deprotected) peptides on biocompatible solid supports is described. Final peptide detachment is afforded in mild basic conditions with no presence of scavengers or other additives, thus allowing single peptide-resin beads to be **cleaved** in mass spectrometry sample plates for direct sequencing using **MALDI**-TOF post-source decay. Using a [9-(hydroxymethyl)-9H-fluoren-2-yl]-carbamic acid moiety (I) as bifunctional linker, **cleavable** under mild basic conditions (morpholine in DMF), the final **cleavage** can be accomplished directly on **MALDI** plates to ensure no losses of pos. compds. This methodol. offers clear advantages for the development of one-bead-one-compound combinatorial libraries in addition to parallel and regular synthesis of peptides.

RE.CNT 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 7 OF 17 MEDLINE on STN
AN 2002680717 MEDLINE
DN PubMed ID: 12440863
TI Oligonucleotides incorporating 7-(aminoalkynyl)-7-deaza-2'-deoxyguanosines: duplex stability and phosphodiester hydrolysis by exonucleases.
AU Rosemeyer Helmut; Ramzaeva Natalya; Becker Eva-Maria; Feiling Elisabeth; Seela Frank
CS Laboratorium fur Organische und Bioorganische Chemie, Institut fur Chemie, Fachbereich Biologie/Chemie, Universitat Osnabruck, Barbarastrasse 7, D-49069 Osnabruck, Germany.
SO Bioconjugate chemistry, (2002 Nov-Dec) 13 (6) 1274-85.
Journal code: 9010319. ISSN: 1043-1802.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200305
ED Entered STN: 20021121
Last Updated on STN: 20030517
Entered Medline: 20030516
AB Oligonucleotides containing 7-(omega-aminoalkyn-1-yl)-7-deaza-2'-deoxyguanosines (1a-c) were investigated regarding their thermal stability (T(m) values) as well as their phosphodiester hydrolysis catalyzed by exonucleases. Those derivatives are suitable for the labeling of nucleic acid constituents as well as for the postlabeling of DNA. For this, the phosphoramidites 7a,c (obtained from the nucleoside 1a,b), protected by an isobutyryl group at the 2-amino group and a phthaloyl residue at the side-chain amino function, were synthesized. Using compounds 7a,c together with the phosphoramidite of 1c in **solid-phase synthesis**, a series of self-complementary and non-self-complementary oligonucleotides were prepared and characterized by **MALDI**-TOF mass spectrometry. A comparison of the T(m) values of the modified oligomers shows that the thermal stability of the duplexes

decreases with the length of the nucleobase 7-(omega-aminoalkyn-1-yl) side chain. Exonucleolytic **cleavage** of oligonucleotide single strands incorporating either the 7-(3-aminopropyn-1-yl)- or the 7-(4-aminobutyn-1-yl)-substituted nucleosides 1a or 1b, respectively, reveals that 3' --> 5' specific snake venom phosphodiesterase liberates 1a 5'-monophosphate but not the methylene-extended 1b 5'-monophosphate. On the contrary, the 5' --> 3' specific bovine spleen exonuclease is able to **cleave** off single 1a and 1b 3'-monophosphate residues; its action is, however, terminated in the case of oligonucleotides containing two consecutive 1a or 1b nucleotide units.

L4 ANSWER 8 OF 17 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:231045 CAPLUS
DN 137:33511
TI High-throughput peptide synthesis and peptide purification strategy at the low micromol-scale using the 96-well format
AU Pipkorn, R.; Boenke, C.; Gehrke, M.; Hoffmann, R.
CS German Cancer Research Center (DKFZ), Heidelberg, Germany
SO Journal of Peptide Research (2002), 59(3), 105-114
CODEN: JPERFA; ISSN: 1397-002X
PB Blackwell Munksgaard
DT Journal
LA English
AB The increasing demand for short- and medium-sized peptides in many fields of biol., medical and pharmaceutical research requires optimized and universally applicable high-throughput synthesis and purification techniques at the low-μmol scale. Here, we describe a continuous peptide synthesis/purification approach using the 96-well format. First, a μmol scale peptide synthesis on resin beads was optimized on a novel miniaturized 96-reaction vessel block employing standard Fmoc/tBu-chemical Almost 90% of the synthesized peptides contained the target sequence as the main component, as judged from matrix-assisted laser desorption/ **ionization** (**MALDI**) mass spectra. Impurities were mostly related to partially protected peptides. Second, we tested the applicability of ion pair reversed-phase solid-phase extraction (IP-RP-SPE) to purify individual peptides. Depending on the length and predicted hydrophobicity of the peptides, elution was performed with 25 or 35% aqueous acetonitrile in the presence of 0.1% trifluoroacetic acid (TFA). Thus, scavengers used during TFA **cleavage** and partially protected peptides carrying very hydrophobic protecting groups were effectively removed. Using a narrow step gradient, the target peptides were even separated from deleted sequences and protected peptides with similar hydrophobicities. Third, we combined the μmol-scale synthesis in the 96-well format with purification by IP-RP-SPE on a 96-well micro-extraction plate format. This simple, fast and parallel approach was tested on 12-mer and 15-mer peptides to map epitopes of T- and B-cell clones, resp. Approx. 80% of all peptides were obtained at purities >90% without purification by RP-HPLC. In summary, this novel approach has several advantages: (i) the μmol-scale reduced the cost of peptide synthesis, (ii) large nos. of peptides were purified faster, (iii) the vols. of eluents and waste were significantly reduced, and (iv) the RP-HPLC column was not contaminated with hydrophobic impurities.
RE.CNT 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 9 OF 17 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2001:417818 CAPLUS
DN 135:195741
TI Site-specific insertion of the (5R*) and (5S*) diastereoisomers of 1-[2-deoxy-β-D-erythro-pentofuranosyl]-5-hydroxyhydantoin into oligodeoxyribonucleotides
AU Muller, Evelyne; Gasparutto, Didier; Lebrun, Colette; Cadet, Jean
CS Laboratoire des Lesions des Acides Nucleiques, Service de Chimie

Inorganique et Biologique, UMR 5046, Departement de Recherche Fondamentale sur la Matiere Condensee, CEA-Grenoble, Grenoble, 38054, Fr.
SO European Journal of Organic Chemistry (2001), (11), 2091-2099
CODEN: EJOCFK; ISSN: 1434-193X
PB Wiley-VCH Verlag GmbH
DT Journal
LA English
OS CASREACT 135:195741
AB The insertion of the (5R*) and (5S*) diastereoisomers of 1-[2-deoxy-β-D-erythro-pentofuranosyl]-5-hydroxyhydantoin- a major oxidation product of 2'-deoxycytidine upon exposure to OH radicals, excited photosensitizers, or ozone - into oligonucleotides is reported. It was achieved by means of phosphoramidite chemical, using the **solid-phase synthesis** approach. The synthesis of the phosphoramidite synthon required 6 steps from 3'-O-(tert-butyldimethylsilyl)-2'-deoxycytidine and involved protection of the secondary hydroxy group (5-OH) of the modified base by the nonstandard levulinyl group. This modified phosphoramidite synthon was efficiently incorporated into several oligonucleotides (3-mer, 14-mer, 22-mer) by solid-support assembling. The presence and the integrity of the (5R*) and (5S*) diastereoisomers of 1-[2-deoxy-β-D-erythro-pentofuranosyl]-5-hydroxyhydantoin in the synthetic oligomers was confirmed by electrospray **ionization** mass spectrometry, together with HPLC and **MALDI**-TOF mass-spectrometric analyses of enzymic digestions. The use of exonucleases (calf spleen phosphodiesterase and bovine intestinal mucosa phosphodiesterase) clearly showed that enzymic hydrolysis of the phosphodiester bonds between the (5R*) and (5S*) diastereoisomers of 1-[2-deoxy-β-D-erythro-pentofuranosyl]-5-hydroxyhydantoin and normal 2'-deoxyribonucleosides is prevented, while endonuclease (nuclease P1) is able to **cleave** the lesion residue from the oligonucleotides.
RE.CNT 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 10 OF 17 MEDLINE on STN
AN 2002071557 MEDLINE
DN PubMed ID: 11798020
TI **Solid phase synthesis** of hydrophobic difficult sequence peptides on BDDMA-PS support.
AU Ajikumar P K; Devaky K S
CS School of Chemical Sciences, Mahatma Gandhi University, Kottayam, Kerala, India.
SO Journal of peptide science : an official publication of the European Peptide Society, (2001 Dec) 7 (12) 641-9.
Journal code: 9506309. ISSN: 1075-2617.
CY England: United Kingdom
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200206
ED Entered STN: 20020125
Last Updated on STN: 20020627
Entered Medline: 20020626
AB This article illustrates the successful and efficient solid phase assembly of hydrophobic difficult sequence peptides following both t-Boc and Fmoc chemistry. The peptides were synthesized on an optimized 1,4-butanediol dimethacrylate-crosslinked polystyrene support (BDDMA-PS). Four difficult sequence test peptides, VAVAG, VIVIG, QVGQVELG and VQAAIDYING, were synthesized in relatively good yield and purity without any aggregation problems. The peptides were assembled on chloromethylated and 4-hydroxymethylphenoxymethyl (HMP) BDDMA-PS resins. The peptides were fabricated using Boc amino acid 1-hydroxybenzotriazolyl and Fmoc amino acid pentafluorophenyl active esters in coupling reactions. The peptides after synthesis were **cleaved** from the polymeric support by exposing the peptidyl resin to 90% trifluroacetic acid/5% thioanisole/5%

EDT mixture. The HPLC and **MALDI** TOF MS studies of the peptides revealed the high homogeneity of the synthesized peptides. Chloromethylated resin having a functional group loading of 1.14 mmol Cl/g was used for the synthesis. The yield and homogeneity of these peptides synthesized using the new support were high when compared with the conventional DVB-PS resin.

L4 ANSWER 11 OF 17 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2003:612955 CAPLUS
DN 140:321573
TI Novel methodology for polymer supported oligosaccharide synthesis
AU Manabe, Shino; Ando, Hiromune; Hanashima, Shinya; Nakahara, Yoshiaki; Ito, Yukishige
CS RIKEN, The Institute of Physical and Chemical Research, Tokai University, Japan
SO Tennen Yuki Kagobutsu Toronkai Koen Yoshishu (2001), 43rd, 43-48
CODEN: TYKYDS
PB Nippon Kagakkai
DT Journal; General Review
LA Japanese
AB A review. **Solid phase synthesis** is now widely recognized as the edge technol. for rapid and efficient oligosaccharide construction. However, it has several disadvantages which should be overcome, (i) the reduced reactivity of substrates, (ii) the difficulty of teal-time reaction monitoring, (iii) limitations on ability of scale-up reactions, and (iv) purification of the desired compds. We choose the PEG (Ave M. W. 550) as a polymer support. It gives homogeneous conditions in reaction mixture, so the reactivity of substrate bound to PEG does not diminished. The scale up of the reaction is possible because the low mol. weight of PEG. Due to its high polarity of PEG, purification of PEG bound sugar was quite simple using silica gel column chromatog. Using the nitro group introduced linker, which is quite stable under typical glycosylation reactions, the oligosaccharide was synthesized on PEG. The monitoring of the glycosylation reaction was performed by **MALDI** -TOF MAS based on the characteristic signal pattern which derives from normal distribution of PEG chain length. The reaction monitoring of deprotection of chloroacetyl group was performed by colorimetric assay by use of (p-nitrobenzyl)pyridine. Chloroacetyl group was selectively reacts with (p-nitrobenzyl)pyridine to give red color under basic conditions. The reaction was semi-quantified by use of NIH Image software. "Catch and release strategy" for the purification of polymer supported oligosaccharide was developed. Solid phase bound cysteine captures the glycosylated product having the chloroacetyl group. **Cleavage** reaction of Fmoc group releases the sugar via intramol. cyclization process into the solution phase. By repetition of glycosylation/capture/release cycle, the poly(lactosamine) was synthesized on polymer support.

L4 ANSWER 12 OF 17 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2000:845660 CAPLUS
DN 134:116227
TI Preparation of protected peptides by gel-phase synthesis on butanediol dimethacrylate cross-linked polystyrene support
AU Roice, M.; Pillai, V. N. Rajasekharan
CS School of Chemical Sciences, Mahatma Gandhi University, Kottayam, 686 560, India
SO Protein and Peptide Letters (2000), 7(6), 365-372
CODEN: PPELEN; ISSN: 0929-8665
PB Bentham Science Publishers
DT Journal
LA English
AB Preparation of fully protected peptide C-terminal esters in high yield and purity by making use of gel-phase synthesis on chloromethyl butanediol dimethacrylate (BDODMA) crosslinked polystyrene is described. The C-terminal amino acid of the peptide was incorporated by cesium salt

method and the step-wise synthesis was carried out using HOBt active ester coupling procedure. The protected peptides were **cleaved** from the support by trans-esterification. The crude peptides were purified by HPLC and characterized by amino acid anal., tlc and **MALDI** TOF MS.

RE.CNT 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 13 OF 17 MEDLINE on STN DUPLICATE 1
AN 2000143276 MEDLINE
DN PubMed ID: 10681041
TI Purification of the c-erbB2/neu membrane-spanning segment: a hydrophobic challenge.
AU Goetz M; Rusconi F; Belghazi M; Schmitter J M; Dufourc E J
CS Institut Europeen de Chimie et de Biologie, Ecole Polytechnique, Universites de Bordeaux I et II, B.P. 108, Talence, France.. michael.goetz@iecb-polytechnique.u-bordeaux.fr
SO Journal of chromatography. B, Biomedical sciences and applications, (2000 Jan 14) 737 (1-2) 55-61.
Journal code: 9714109. ISSN: 1387-2273.
CY Netherlands
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200003
ED Entered STN: 20000314
Last Updated on STN: 20000314
Entered Medline: 20000301
AB High quality purification of membrane-spanning peptides and proteins remains a challenging problem. In this work we describe a tailored chromatographic purification of a synthetic 35-residue peptide corresponding to the transmembrane region of the tyrosine kinase receptor c-erb2/neu. Composed to over 70% by the amino acids alanine, isoleucine, leucine, phenylalanine and valine, this peptide presents a very hydrophobic character. Product isolation from the complex peptide mixture, obtained after acid **cleavage** of the resin matrix used during the **solid-phase synthesis**, represents a difficult task. We propose a three step strategy based on gel permeation and reversed-phase high-performance liquid chromatography, using aprotic polar solvent mixtures. The challenge consisted in obtaining a sufficient amount of an extremely pure sample, in order to allow structural analysis by NMR spectroscopy. Keeping trace of the synthetic peptide throughout the different purification steps was assured by **MALDI** TOF mass spectrometry, and the final product purity was checked by coupled liquid chromatography-ESI TOF mass spectrometry.

L4 ANSWER 14 OF 17 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN DUPLICATE 2
AN 1997:511965 BIOSIS
DN PREV199799811168
TI Monitoring the **solid phase synthesis** of analogues of lysobactin and the katanosins using in situ **MALDI** -TOF MS.
AU Egner, Bryan J.; Bradley, Mark [Reprint author]
CS Dep. Chem., Univ. Southampton, Highfield, Southampton SO17 1BJ, UK
SO Tetrahedron (1997) Vol. 53, No. 41, pp. 14021-14030.
CODEN: TETRAB. ISSN: 0040-4020.
DT Article
LA English
ED Entered STN: 10 Dec 1997
Last Updated on STN: 27 Jan 1998
AB A method of solid phase reaction analysis is described using an in situ **cleavage** process (TFA vapour) followed by **MALDI**-TOF MS analysis. The process is demonstrated by the **solid**

phase synthesis of a depsipeptide based on the antibiotic Lysobactin.

L4 ANSWER 15 OF 17 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1997:528598 CAPLUS
DN 127:162115
TI Methods for the Chemical Synthesis and Readout of Self-Encoded Arrays of Polypeptide Analogs
AU Dawson, Philip E.; Fitzgerald, Michael C.; Muir, Tom W.; Kent, Stephen B. H.
CS Scripps Research Institute, La Jolla, CA, 92037, USA
SO Journal of the American Chemical Society (1997), 119(34), 7917-7927
CODEN: JACSAT; ISSN: 0002-7863
PB American Chemical Society
DT Journal
LA English
AB The synthesis of defined arrays of peptide analogs in conjunction with a simple self-encoded chemical readout system provides a powerful method for the systematic investigation of the relationship between peptide mol. structure and function. A novel **solid-phase synthesis** procedure was used to prepare arrays of peptide analogs in which a specific thioester modification was systematically incorporated into a unique position in a peptide sequence. The synthesis was carried out in such a way that the resulting arrays contained a defined family of modified peptides, with each peptide mol. containing only a single specific modification. The array of peptide analogs was self-encoded in a positional fashion by incorporating a selectively **cleavable** thioester bond into the analog structure. Following **cleavage** of the peptide analog array, anal. of the resulting peptide fragments by **MALDI** mass spectrometry defined, in a single step, the presence and identity of each peptide analog in the mixture The feasibility of this approach was demonstrated by the synthesis and mass spectrometric readout of an array of 9 analogs of the 58-residue polypeptide chain of the cCrk N-terminal SH3 domain, before and after folding and affinity selection.

L4 ANSWER 16 OF 17 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 3
AN 1997:447943 BIOSIS
DN PREV199799747146
TI Direct monitoring of organic reactions on polymeric supports.
AU Carrasco, Michael R. [Reprint author]; Fitzgerald, Michael C.; Oda, Yoshiya; Kent, Stephen B. H.
CS Scripps Res. Inst., 10550 N. Torrey Pines Rd., La Jolla, CA 92037, USA
SO Tetrahedron Letters, (1997) Vol. 38, No. 36, pp. 6331-6334.
CODEN: TELEAY. ISSN: 0040-4039.
DT Article
LA English
ED Entered STN: 27 Oct 1997
Last Updated on STN: 27 Oct 1997
AB A method to use matrix-assisted laser desorption/**ionization** mass spectrometry (**MALDI**-MS) for real-time monitoring of organic reactions on polymeric supports used in **solid-phase synthesis** is described. The strategy utilizes a synthetic construct that allows for the rapid and convenient direct **MALDI** analysis of the attached substrates as well as their subsequent chemical **cleavage** as desired. We have used this strategy to monitor nucleophilic substitutions, palladium-catalyzed coupling reactions, and solid phase peptide synthesis reactions using both Boc- and Fmoc-based chemistries.

L4 ANSWER 17 OF 17 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1997:285866 CAPLUS
DN 127:5331
TI Rapid semi-online monitoring of Fmoc solid-phase peptide synthesis by

matrix-assisted laser desorption/**ionization** mass spectrometry
AU Talbo, Gert; Wade, John D.; Dawson, Nicola; Manoussios, Mary; Tregear, Geoffrey W.
CS Howard Florey Institute of Experimental Physiology and Medicine, University of Melbourne, Parkville, VIC 3052, Australia
SO Letters in Peptide Science (1997), 4(2), 121-127
CODEN: LPSCEM; ISSN: 0929-5666
PB ESCOM
DT Journal
LA English
AB A simple yet highly effective application of matrix-assisted laser desorption/**ionization** mass spectrometry (**MALDI**-MS) for the rapid monitoring of 9-fluorenylmethoxycarbonyl (Fmoc) solid-phase peptide synthesis is described. A few beads of the resin are removed at any desired step during synthesis, the fully protected peptide is **cleaved** from the resin and an MS spectrum of the analytes present is produced. Some standard side-chain protecting groups may be **cleaved** off during sample preparation for MS anal.; however, these cleavages are readily identified. Using this approach, incomplete amino acid acylations are readily detected in approx. the same time as by traditional tests such as ninhydrin. The semi-online method also lends itself to ready optimization of synthesis protocols and to the examination of resin-bound peptide side reactions which may not be detectable by chemical means.
RE.CNT 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

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=> e au=carr, robin
E1            1     AU9NB11/BI
E2            1     AU9SH/BI
E3            0 --> AU=CARR, ROBIN/BI
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E5          148     AUA1/BI
E6            5     AUA2/BI
E7            1     AUA2CL/BI
E8            1     AUA2S/BI
E9           10     AUA3/BI
E10           8     AUA4/BI
E11           1     AUA6/BI
E12           3     AUA6665/BI

=> e carr robin/au
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E2            1     CARR ROBERT WILSON JR/AU
E3            8 --> CARR ROBIN/AU
E4           23     CARR ROBIN A E/AU
E5            1     CARR ROBIN ARTHUR/AU
E6           12     CARR ROBIN ARTHUR ELLIS/AU
E7            7     CARR ROBIN E/AU
E8            1     CARR ROBIN G/AU
E9            2     CARR ROBYN/AU
E10           1     CARR ROCHELLE/AU
E11           6     CARR RODERICK A/AU
E12          23     CARR ROGER/AU

=> s e3 or e4 or 36 or e7
L5      1159817 "CARR ROBIN"/AU OR "CARR ROBIN A E"/AU OR 36 OR "CARR ROBIN
                E"/AU

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L6           51 ("CARR ROBIN"/AU OR "CARR ROBIN A E"/AU OR "CARR ROBIN ARTHUR"/A
                U OR "CARR ROBIN ARTHUR ELLIS"/AU OR "CARR ROBIN E"/AU)
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=> s l6 and MALDI
L7 0 L6 AND MALDI

=> S l6 and spectrometry
L8 3 L6 AND SPECTROMETRY

=> dup rem l6
PROCESSING COMPLETED FOR L6
L9 39 DUP REM L6 (12 DUPLICATES REMOVED)

=> S l9 and spectrometry
L10 2 L9 AND SPECTROMETRY

=> d bib abs l10 1-2

L10 ANSWER 1 OF 2 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
AN 1999:207986 BIOSIS
DN PREV199900207986
TI A photolabile carbamate based dual linker analytical construct for facile monitoring of solid phase chemistry: 'TLC' for solid phase?.
AU McKeown, Stephen C. [Reprint author]; Watson, Stephen P.; **Carr, Robin A. E.**; Marshall, Peter
CS Discovery Chemistry Unit, Glaxo Wellcome Medicines Research Centre, Gunnels Wood Road, Stevenage, Hertfordshire, SG1 2NY, UK
SO Tetrahedron Letters, (March 19, 1999) Vol. 40, No. 12, pp. 2407-2410. print.
CODEN: TELEAY. ISSN: 0040-4039.
DT Article
LA English
ED Entered STN: 26 May 1999
Last Updated on STN: 26 May 1999
AB A dual linker analytical construct based on a photolabile carbamate is described. Photochemical cleavage from the solid support can be effected to afford an analytical fragment, containing the substrate, which is sensitised to electrospray mass **spectrometry**. We believe this simple construct now renders all substrates visible to high throughput mass specroscopic analysis.

L10 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2001:64373 CAPLUS
DN 134:280389
TI Single bead characterization using analytical constructs: Application to quality control of libraries
AU Lorthioir, Olivier; **Carr, Robin A. E.**; Congreve, Miles S.; Geysen, Mario H.; Kay, Corinne; Marshall, Peter; McKeown, Stephen C.; Parr, Nigel J.; Scicinski, Jan J.; Watson, Stephen P.
CS Glaxo SmithKline Medicines Research Centre, Stevenage Hertfordshire, SG1 2NY, UK
SO Analytical Chemistry (2001), 73(5), 963-970
CODEN: ANCHAM; ISSN: 0003-2700
PB American Chemical Society
DT Journal
LA English
AB Anal. construct technol. was successfully applied to the single-bead anal. of a split-mix combinatorial library. Substrates can be released from the resin by conventional cleavage for biol. screening. Alternatively, for the purpose of anal. and quality control, cleavage at an orthogonal construct linker produces an anal. fragment incorporating the substrate. This anal. fragment is highly sensitized to electrospray mass **spectrometry** (ESI-MS) and is easily identified by isotope labeling. The construct cleavage rendered readily visible even those compds. that clearly could not be seen by conventional cleavage and mass **spectrometry** anal. A 1H NMR control experiment proved that the compds. cleaved conventionally were, however, present in the sample in good yield

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     and purity.  In view of the data obtained, the authors think that this is
     a significant and important step toward solving the authors' current
     quality control problems.
RE.CNT  26     THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD
               ALL CITATIONS AVAILABLE IN THE RE FORMAT


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     FILE 'MEDLINE, BIOSIS, EMBASE, SCISEARCH, CAPLUS, WPIDS' ENTERED AT
     21:25:51 ON 11 JUL 2004
L1           231 S MALDI AND (SOLID(W)PHASE(W)SYNTHESIS)
L2          7987 S (CLEAVABLE OR CLEAVED OR CLEAVE OR CLEAVAGE) AND (IONIZATION
L3            22 S L1 AND L2
L4            17 DUP REM L3 (5 DUPLICATES REMOVED)
                E AU=CARR, ROBIN
                E CARR ROBIN/AU
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L5      1159817 S E3 OR E4 OR 36 OR E7
L6           51 S E3-E7
L7            0 S L6 AND MALDI
L8            3 S L6 AND SPECTROMETRY
L9           39 DUP REM L6 (12 DUPLICATES REMOVED)
L10           2 S L9 AND SPECTROMETRY

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     FILE 'MEDLINE, BIOSIS, EMBASE, SCISEARCH, CAPLUS, WPIDS' ENTERED AT
     21:35:32 ON 11 JUL 2004

=> t l9 ti 1-39

L9   ANSWER 1 OF 39     MEDLINE on STN
TI   A 'rule of three' for fragment-based lead discovery?.

L9   ANSWER 2 OF 39     MEDLINE on STN                    DUPLICATE 1
TI   Oxidation state of the active-site cysteine in protein tyrosine
     phosphatase 1B.

L9   ANSWER 3 OF 39     MEDLINE on STN                    DUPLICATE 2
TI   Structure-based screening of low-affinity compounds.

L9   ANSWER 4 OF 39  CAPLUS  COPYRIGHT 2004 ACS on STN
TI   High-throughput X-ray crystallography and fragment-based screening for
     drug discovery

L9   ANSWER 5 OF 39  CAPLUS  COPYRIGHT 2004 ACS on STN
TI   Preparation of chemical constructs containing anthracenyl or dansyl groups
     as UV chromophores

L9   ANSWER 6 OF 39  CAPLUS  COPYRIGHT 2004 ACS on STN
TI   Single bead characterization using analytical constructs: Application to
     quality control of libraries

L9   ANSWER 7 OF 39  CAPLUS  COPYRIGHT 2004 ACS on STN
TI   Reporter Resins for Solid-Phase Chemistry

L9   ANSWER 8 OF 39  CAPLUS  COPYRIGHT 2004 ACS on STN
TI   Solid-Phase Development of a 1-Hydroxybenzotriazole Linker for Heterocycle
     Synthesis Using Analytical Constructs

L9   ANSWER 9 OF 39  CAPLUS  COPYRIGHT 2004 ACS on STN
TI   Amine releasing dual linker analytical constructs for facile monitoring of
     solid phase chemistry

L9   ANSWER 10 OF 39  CAPLUS  COPYRIGHT 2004 ACS on STN
TI   Preparation of chemical constructs for monitoring reactions on solid
     supports

L9   ANSWER 11 OF 39  BIOSIS  COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
TI   Correction of Previews 200000521773. Synthesis and SAR of new
     5-phenyl-3-ureido-1,5-benzodiazepines as cholecystokinin-B receptor
     antagonists. Correction of author name.).

L9   ANSWER 12 OF 39  CAPLUS  COPYRIGHT 2004 ACS on STN
TI   Synthesis and SAR of New 5-Phenyl-3-ureido-1,5-benzodiazepines as
     Cholecystokinin-B Receptor Antagonists. [ Erratum for 2000, Volume 43 ]

L9   ANSWER 13 OF 39  BIOSIS  COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
     DUPLICATE 3
TI   Synthesis and SAR of new 5-phenyl-3-ureido-1,5-benzodiazepines as
     cholecystokinin-B receptor antagonists.
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L9 ANSWER 14 OF 39 CAPLUS COPYRIGHT 2004 ACS on STN
TI Analysis of solid-phase reactions: product identification and quantification by use of UV-chromophore-containing dual-linker analytical constructs

L9 ANSWER 15 OF 39 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN DUPLICATE 4
TI Rapid reaction scanning of solid phase chemistry using resins incorporating analytical constructs.

L9 ANSWER 16 OF 39 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN DUPLICATE 5
TI A photolabile carbamate based dual linker analytical construct for facile monitoring of solid phase chemistry: 'TLC' for solid phase?.

L9 ANSWER 17 OF 39 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN DUPLICATE 6
TI Cyclic-fused azomethine-, imidate-, and thioimidate methylides: An efficient regiocontrolled entry into spiro-fused pyrrolidines.

L9 ANSWER 18 OF 39 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN DUPLICATE 7
TI A short dipolar cycloaddition approach to gamma-lactam alkaloids from Cynometra hankei.

L9 ANSWER 19 OF 39 CAPLUS COPYRIGHT 2004 ACS on STN
TI Hetero-1,3-dipolar cycloadditions of dithiolane-isocyanate imminium methylides: a novel route to 1,3-oxazolidine- and thiazolidine-2-thiones

L9 ANSWER 20 OF 39 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN DUPLICATE 8
TI Discovery of 1,5-benzodiazepines with peripheral cholecystokinin (CCK-A) receptor agonist activity: 1. Optimization of the agonist "trigger".

L9 ANSWER 21 OF 39 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN DUPLICATE 9
TI Dithiolane-isocyanate iminium methylides: A rapid stereoselective entry into gamma-lactams.

L9 ANSWER 22 OF 39 CAPLUS COPYRIGHT 2004 ACS on STN
TI Enolate bromination in 2-acyl-1,3-dithiane 1-oxides

L9 ANSWER 23 OF 39 CAPLUS COPYRIGHT 2004 ACS on STN
TI Preparation of 1,5-benzodiazepine derivatives as cholecystokinin and/or gastrin antagonists

L9 ANSWER 24 OF 39 CAPLUS COPYRIGHT 2004 ACS on STN
TI Preparation of 1,5-benzodiazepine-2,4-dione derivatives as cholecystokinin A receptor agonists.

L9 ANSWER 25 OF 39 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN DUPLICATE 10
TI Enantioselective synthesis of (R)-(-)-2,6-dimethyl heptanoic acid: The first application of the DITOX asymmetric building block.

L9 ANSWER 26 OF 39 CAPLUS COPYRIGHT 2004 ACS on STN
TI Diastereoselective electrophilic amination of ketone enolates in 2-substituted 2-acyl-1,3-dithiane 1-oxides

L9 ANSWER 27 OF 39 CAPLUS COPYRIGHT 2004 ACS on STN
TI (Phenylureido)benzodiazepinone antagonists of gastrin and/or cholecystokinin

L9 ANSWER 28 OF 39 CAPLUS COPYRIGHT 2004 ACS on STN
TI High diastereofacial selectivity in asymmetric Mannich reaction of acyldithiane oxide enolates

L9 ANSWER 29 OF 39 CAPLUS COPYRIGHT 2004 ACS on STN
TI Preparation of substituted pyridine insecticidal compounds

L9 ANSWER 30 OF 39 CAPLUS COPYRIGHT 2004 ACS on STN
TI Preparation of sulfamylpyridyl alkylsulfonates and analogs as insecticides

L9 ANSWER 31 OF 39 CAPLUS COPYRIGHT 2004 ACS on STN
TI Preparation of insecticidal ethers

L9 ANSWER 32 OF 39 CAPLUS COPYRIGHT 2004 ACS on STN
TI Fluorinated phenylalkyl ethers, their insecticidal and acaricidal compositions and use, and processes and intermediates for their preparation

L9 ANSWER 33 OF 39 CAPLUS COPYRIGHT 2004 ACS on STN
TI Insecticidal phenylalkyl thioethers, sulfoxides, and sulfones, and processes of their preparation

L9 ANSWER 34 OF 39 CAPLUS COPYRIGHT 2004 ACS on STN
TI Preparation of phenylalkenes as intermediates for insecticidal benzyloxypropane derivatives

L9 ANSWER 35 OF 39 CAPLUS COPYRIGHT 2004 ACS on STN
TI Insecticidal (fluoroalkyl)benzene derivatives and processes for their preparation

L9 ANSWER 36 OF 39 CAPLUS COPYRIGHT 2004 ACS on STN
TI Insecticidal and acaricidal arylfluoroalky arylmethyl ethers and processes for their preparation

L9 ANSWER 37 OF 39 CAPLUS COPYRIGHT 2004 ACS on STN
TI Total synthesis of (+)-milbemycin β3

L9 ANSWER 38 OF 39 CAPLUS COPYRIGHT 2004 ACS on STN
TI Synthesis and reactions of derivatives of 1,7-dioxaspiro[5.5]undec-2-en-4-one

L9 ANSWER 39 OF 39 CAPLUS COPYRIGHT 2004 ACS on STN
TI Total synthesis of (+)-milbemycin β3

=> d bib abs l9 1-10, 14-16

L9 ANSWER 1 OF 39 MEDLINE on STN
AN 2003476441 MEDLINE
DN PubMed ID: 14554012
TI A 'rule of three' for fragment-based lead discovery?.
CM Comment on: Drug Discov Today. 2003 Jan 1;8(1):12-6. PubMed ID: 12546981
AU Congreve Miles; **Carr Robin**; Murray Chris; Jhoti Harren
CS Astex Technology Ltd, 436 Cambridge Science Park, Milton Road, CB4 0QA, Cambridge, UK.
SO Drug discovery today, (2003 Oct 1) 8 (19) 876-7.
Journal code: 9604391. ISSN: 1359-6446.
CY England: United Kingdom
DT Commentary
Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200401
ED Entered STN: 20031014

Last Updated on STN: 20040129
Entered Medline: 20040128

L9 ANSWER 2 OF 39 MEDLINE on STN DUPLICATE 1
AN 2003275676 MEDLINE
DN PubMed ID: 12802339
TI Oxidation state of the active-site cysteine in protein tyrosine phosphatase 1B.
AU van Montfort Rob L M; Congreve Miles; Tisi Dominic; **Carr Robin**; Jhoti Harren
CS Astex Technology Ltd, 436 Cambridge Science Park, Milton Road, Cambridge CB4 0QA, UK.
SO Nature, (2003 Jun 12) 423 (6941) 773-7.
Journal code: 0410462. ISSN: 0028-0836.
CY England: United Kingdom
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
OS PDB-1OES; PDB-1OET; PDB-1OEU; PDB-1OEV
EM 200307
ED Entered STN: 20030613
Last Updated on STN: 20030715
Entered Medline: 20030714
AB Protein tyrosine phosphatases regulate signal transduction pathways involving tyrosine phosphorylation and have been implicated in the development of cancer, diabetes, rheumatoid arthritis and hypertension. Increasing evidence suggests that the cellular redox state is involved in regulating tyrosine phosphatase activity through the reversible oxidization of the catalytic cysteine to sulphenic acid (Cys-SOH). But how further oxidation to the irreversible sulphinic (Cys-SO2H) and sulphonic (Cys-SO3H) forms is prevented remains unclear. Here we report the crystal structures of the regulatory sulphenic and irreversible sulphinic and sulphonic acids of protein tyrosine phosphatase 1B (PTP1B), an important enzyme in the negative regulation of the insulin receptor and a therapeutic target in type II diabetes and obesity. We also identify a sulphenyl-amide species that is formed through oxidation of its catalytic cysteine. Formation of the sulphenyl-amide causes large changes in the PTP1B active site, which are reversible by reduction with the cellular reducing agent glutathione. The sulphenyl-amide is a protective intermediate in the oxidative inhibition of PTP1B. In addition, it may facilitate reactivation of PTP1B by biological thiols and signal a unique state of the protein.

L9 ANSWER 3 OF 39 MEDLINE on STN DUPLICATE 2
AN 2002733649 MEDLINE
DN PubMed ID: 11983569
TI Structure-based screening of low-affinity compounds.
AU **Carr Robin**; Jhoti Harren
CS Astex Technology, 250 Cambridge Science Park, Cambridge, UK CB4 0WE.
SO Drug discovery today, (2002 May 1) 7 (9) 522-7. Ref: 36
Journal code: 9604391. ISSN: 1359-6446.
CY England: United Kingdom
DT Journal; Article; (JOURNAL ARTICLE)
General Review; (REVIEW)
(REVIEW, TUTORIAL)
LA English
FS Priority Journals
EM 200303
ED Entered STN: 20021227
Last Updated on STN: 20030325
Entered Medline: 20030324
AB Conventional bioassay-based screening remains a mainstream approach for lead discovery. However, its limitations have meant that other, more biophysical methods, such as X-ray crystallography and NMR, are now being

developed as lead discovery tools. These methods are particularly effective at detecting the binding of low affinity, low molecular weight compounds and transforming them into novel potent leads using structure-guided chemistry. Here, we describe some of the technologies and approaches that are being developed in structure-based screening using X-ray crystallography, which promise to have a major impact on lead discovery.

L9 ANSWER 4 OF 39 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:744798 CAPLUS
DN 138:296892
TI High-throughput X-ray crystallography and fragment-based screening for drug discovery
AU **Carr, Robin**
CS Astex Technology Ltd., Cambridge, CB4 0WE, UK
SO American Genomic/Proteomic Technology (2002), 2(4), 34-36, 38-39
CODEN: AGTMC7; ISSN: 1537-0003
PB International Scientific Communications, Inc.
DT Journal; General Review
LA English
AB A review. Conventional structure-based drug discovery routinely involves the use of crystal structures of target proteins; optimization of lead compds. uses three-dimensional information about the protein's binding site. Traditionally, x-ray crystallog. has been regarded as a very resource-intensive technique, which has restricted its use primarily to the lead optimization phase, where it is used to study a small number of high-value compds. However, as a result of major technol. advances in both software and hardware, rapid determination of protein and protein-ligand structures is now allowing x-ray crystallog. to be used in lead screening.
RE.CNT 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 5 OF 39 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2001:265362 CAPLUS
DN 134:295629
TI Preparation of chemical constructs containing anthracenyl or dansyl groups as UV chromophores
IN **Carr, Robin Arthur Ellis**; Gehanne, Sylvie; Paio, Alfredo; Williams, Geoffrey Martyn; Zaramella, Alessio
PA Glaxo Group Limited, UK
SO PCT Int. Appl., 52 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001025171	A1	20010412	WO 2000-EP9639	20001003
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	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	EP 1218319	A1	20020703	EP 2000-966100	20001003
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
	JP 2003511656	T2	20030325	JP 2001-528123	20001003
PRAI	GB 1999-23577	A	19991005		
	WO 2000-EP9639	W	20001003		

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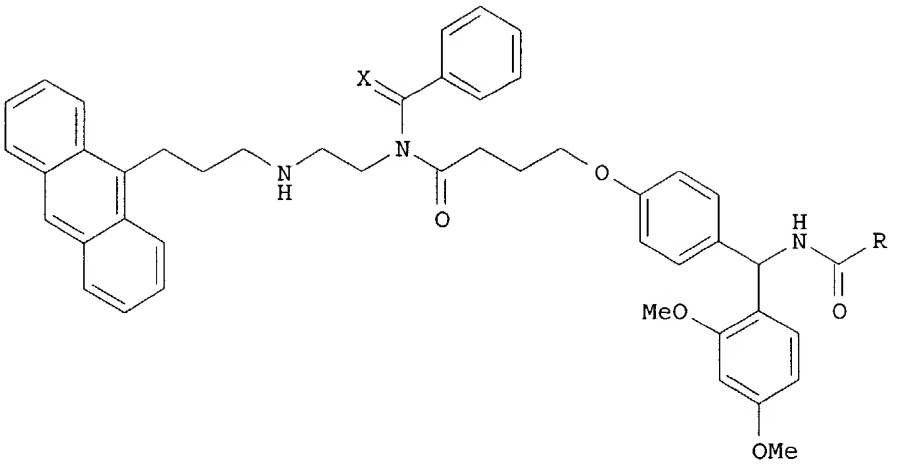

I

AB Solid phase synthesis and methods of anal. of the products are given. More specifically "a chemical construct for use in solid phase synthesis comprising a solid support Q having linked thereto via a connecting group Y a substrate R; the connecting group Y having first and second cleavage sites which are orthogonally and selectively cleavable; the second cleavage site being selectively cleavable to release the substrate; and the first cleavage site being located at a position between the second cleavage site and the solid support and being selectively cleavable to release a fragment Fru comprising the substrate and at least a portion of the connecting group Y, wherein the said portion contains a chromophore Cu which facilitates anal. of the fragment Fru by UV, visible or fluorescence spectroscopy, the chromophore Cu having a principal log Emax value of at least 2.5 and wherein (i) the principal log Emax value is at least 1.5 times greater than the principal log Emax of the substrate R; or (ii) the chromophore Cu has an absorption peak at a wavelength remote from absorptions due to the substrate R; and to methods of anal. of products of solid phase synthesis using the constructs". E.g., anthracenes I (X = H, D; R = 3-dimethylaminophenyl, 2-naphthylmethyl, 3-butenyl, tert-butylmethyl) were prepared by solid phase synthesis and analyzed by by UV.

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 6 OF 39 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2001:64373 CAPLUS
DN 134:280389
TI Single bead characterization using analytical constructs: Application to quality control of libraries
AU Lorthioir, Olivier; **Carr, Robin A. E.**; Congreve, Miles S.; Geysen, Mario H.; Kay, Corinne; Marshall, Peter; McKeown, Stephen C.; Parr, Nigel J.; Scicinski, Jan J.; Watson, Stephen P.
CS Glaxo SmithKline Medicines Research Centre, Stevenage Hertfordshire, SG1 2NY, UK
SO Analytical Chemistry (2001), 73(5), 963-970
CODEN: ANCHAM; ISSN: 0003-2700
PB American Chemical Society
DT Journal
LA English
AB Anal. construct technol. was successfully applied to the single-bead anal. of a split-mix combinatorial library. Substrates can be released from the resin by conventional cleavage for biol. screening. Alternatively, for the purpose of anal. and quality control, cleavage at an orthogonal

construct linker produces an anal. fragment incorporating the substrate. This anal. fragment is highly sensitized to electrospray mass spectrometry (ESI-MS) and is easily identified by isotope labeling. The construct cleavage rendered readily visible even those compds. that clearly could not be seen by conventional cleavage and mass spectrometry anal. A 1H NMR control experiment proved that the compds. cleaved conventionally were, however, present in the sample in good yield and purity. In view of the data obtained, the authors think that this is a significant and important step toward solving the authors' current quality control problems.
RE.CNT 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 7 OF 39 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2001:44892 CAPLUS
DN 134:251943
TI Reporter Resins for Solid-Phase Chemistry
AU Congreve, Miles S.; Ladlow, Mark; Marshall, Peter; Parr, Nigel; Scicinski, Jan J.; Sheppard, Tom; Vickerstaffe, Emma; **Carr, Robin A. E.**
CS Glaxo Wellcome Cambridge Chemistry Laboratory University Chemical Laboratories, Cambridge, CB2 1EW, UK
SO Organic Letters (2001), 3(4), 507-510
CODEN: ORLEF7; ISSN: 1523-7060
PB American Chemical Society
DT Journal
LA English
OS CASREACT 134:251943
AB An anal. construct resin, designed to aid the anal. of solid-phase chemical, has been mixed in a small proportion with a conventional resin. The anal. construct ("reporter resin") contains two orthogonal linkers that allow cleavage of either the synthetic intermediates (at linker 2) or their anal. enhanced derivs. (at linker 1). The convenient and rapid monitoring of each step in the syntheses of representative library compds. was possible using small resin aliquots.
RE.CNT 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 8 OF 39 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2001:417478 CAPLUS
DN 135:166813
TI Solid-Phase Development of a 1-Hydroxybenzotriazole Linker for Heterocycle Synthesis Using Analytical Constructs
AU Scicinski, Jan J.; Congreve, Miles S.; Jamieson, Craig; Ley, Steven V.; Newman, Emma S.; Vinader, Victoria M.; **Carr, Robin A. E.**
CS Department of Chemistry, GlaxoSmithKline Research and Development University Chemical Laboratories, Cambridge, CB2 1EW, UK
SO Journal of Combinatorial Chemistry (2001), 3(4), 387-396
CODEN: JCCHFF; ISSN: 1520-4766
PB American Chemical Society
DT Journal
LA English
OS CASREACT 135:166813
AB The development of a 1-hydroxybenzotriazole linker for the synthesis of heterocyclic derivs. is described, utilizing anal. construct methodol. to facilitate the anal. of resin samples. A UV-chromophore-containing anal. construct enabled the accurate determination of resin loading and the automated monitoring of key reactions using only small quantities of resin. The syntheses of an array of isoxazole derivs. are reported.
RE.CNT 42 THERE ARE 42 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 9 OF 39 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:46853 CAPLUS
DN 137:247222
TI Amine releasing dual linker analytical constructs for facile monitoring of

solid phase chemistry

AU Congreve, Miles S.; Kay, Corinne; Murray, Peter J.; Scicinski, Jan J.; Ley, Steven V.; McKeown, Stephen C.; Watson, Stephen P.; **Carr, Robin A. E.**

CS Glaxo Wellcome-Cambridge Chemistry Laboratory, Cambridge, CB2 1EW, UK

SO Innovation and Perspectives in Solid Phase Synthesis & Combinatorial Libraries: Peptides, Proteins and Nucleic Acids--Small Molecule Organic Chemistry Diversity, Collected Papers, International Symposium, 6th, York, United Kingdom, Aug. 31-Sept. 4, 1999 (2001), Meeting Date 1999, 217-220. Editor(s): Epton, Roger. Publisher: Mayflower Scientific Ltd., Kingswinford, UK.
CODEN: 69CEGV; ISBN: 0-9515735-3-5

DT Conference

LA English

AB Solid phase amine releasing dual linker anal. constructs have been prepared for reaction monitoring and anal. of chemical stability. The constructs were evaluated against numerous common synthetic reagents to establish their viability for use in solid phase synthesis.

RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 10 OF 39 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2000:241132 CAPLUS

DN 132:278732

TI Preparation of chemical constructs for monitoring reactions on solid supports

IN **Carr, Robin Arthur Ellis**; Gehanne, Sylvie; Kay, Corinne; McKeown, Stephen Carl; Murray, Peter John; Paio, Alfredo; Scicinski, Jan Josef; Watson, Stephen Paul; Williams, Geoffrey Martyn; Zaramella, Alessio

PA Glaxo Group Limited, UK

SO PCT Int. Appl., 110 pp.
CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000020357	A2	20000413	WO 1999-GB3286	19991005
	WO 2000020357	A3	20001026		
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	RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	AU 9961121	A1	20000426	AU 1999-61121	19991005
	EP 1119529	A2	20010801	EP 1999-947750	19991005
	EP 1119529	B1	20030917		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	JP 2002526512	T2	20020820	JP 2000-574478	19991005
	AT 250018	E	20031015	AT 1999-947750	19991005
	PT 1119529	T	20040227	PT 1999-947750	19991005
	ES 2207286	T3	20040516	ES 1999-947750	19991005
PRAI	GB 1998-21655	A	19981005		
	WO 1999-GB3286	W	19991005		

OS CASREACT 132:278732

AB Title constructs comprise a solid support having linked thereto via a connecting group a substrate such that the connecting group has first and second cleavage sites which are orthogonally and selectively cleavable, the second cleavage site being selectively cleavable to release the

substrate, and the first cleavage site being located at a position between the second cleavage site and the solid support and being selectively cleavable to release a fragment comprising the substrate and at least a portion of the connecting group characterized in that cleavage at the first cleavage site forms or introduces on the chemical fragment at the first cleavage site a moiety comprising a sensitizing group (such as an amino group) which sensitizes the chemical fragment to instrumental, e.g. mass spectroscopic, anal. Thus, RNHCO(CH2)3OZCHMeOH (R = resin, Z = 2-methoxy-5-nitro-1,4-phenylene)(preparation given) was condensed with carbonyldiimidazole and the product amidated by PhCD2N(CO2CMe3)CH2NH2 to give, after deprotection, RNHCO(CH2)3OZCHMeO2CNHCH2CH2NHCD2Ph which was amidated by HO2C(CH2)3OZ1NHFmocC6H3(OMe)2-2,4 (Z1 = 1,4-phenylene) to give, after deprotection, N-benzoylation, and photolysis, H2NCH2CH2N(CD2Ph)CO(CH2)3OZ1CH(NHBz)C6H3(OMe)2-2,4 (Z1 unchanged). A mass spectrum of the latter was given.

L9 ANSWER 14 OF 39 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2000:733809 CAPLUS
DN 134:17723
TI Analysis of solid-phase reactions: product identification and quantification by use of UV-chromophore-containing dual-linker analytical constructs
AU Williams, Geoff M.; **Carr, Robin A. E.**; Congreve, Miles S.; Kay, Corinne; McKeown, Stephen C.; Murray, Peter J.; Scicinski, Jan J.; Watson, Stephen P.
CS Glaxo Wellcome-Cambridge Chem. Lab., Univ. Chemical Lab., Cambridge, CB2 1EW, UK
SO Angewandte Chemie, International Edition (2000), 39(18), 3293-3296
CODEN: ACIEF5; ISSN: 1433-7851
PB Wiley-VCH Verlag GmbH
DT Journal
LA English
AB The authors report an enhancement to the recently reported technique of product identification which uses two chemical orthogonal linkers separated by an
anal. component, in which release of an anal. fragment composed of an amine group, and inclusion of an isotope label for mass-spectra splitting qualities, was improved by the incorporation of a UV chromophore, which allowed components present in a product mixture to be identified by MS and also quickly quantified by key UV wavelengths.
RE.CNT 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 15 OF 39 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 4
AN 1999:373384 BIOSIS
DN PREV199900373384
TI Rapid reaction scanning of solid phase chemistry using resins incorporating analytical constructs.
AU Murray, Peter John; Kay, Corinne; Scicinski, Jan J. [Reprint author]; McKeown, Stephen C.; Watson, Stephen P.; **Carr, Robin A. E.**
CS Glaxo Wellcome-Cambridge Chemistry Laboratory, University Chemical Laboratories, Lensfield Road, Cambridge, CB2 1EW, UK
SO Tetrahedron Letters, (July 23, 1999) Vol. 40, No. 30, pp. 5609-5612. print.
CODEN: TELEAY. ISSN: 0040-4039.
DT Article
LA English
ED Entered STN: 9 Sep 1999
Last Updated on STN: 9 Sep 1999
AB Two analytical constructs, based on orthogonally cleavable linkers, are reported which facilitate the mass spectral analysis of solid phase chemistry. The chemical compatibility and orthogonality of the linkers were established in a parallel reaction study using constructs prepared

specifically for the purpose.

L9 ANSWER 16 OF 39 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
DUPLICATE 5
AN 1999:207986 BIOSIS
DN PREV199900207986
TI A photolabile carbamate based dual linker analytical construct for facile monitoring of solid phase chemistry: 'TLC' for solid phase?.
AU McKeown, Stephen C. [Reprint author]; Watson, Stephen P.; **Carr, Robin A. E.**; Marshall, Peter
CS Discovery Chemistry Unit, Glaxo Wellcome Medicines Research Centre, Gunnels Wood Road, Stevenage, Hertfordshire, SG1 2NY, UK
SO Tetrahedron Letters, (March 19, 1999) Vol. 40, No. 12, pp. 2407-2410. print.
CODEN: TELEAY. ISSN: 0040-4039.
DT Article
LA English
ED Entered STN: 26 May 1999
Last Updated on STN: 26 May 1999
AB A dual linker analytical construct based on a photolabile carbamate is described. Photochemical cleavage from the solid support can be effected to afford an analytical fragment, containing the substrate, which is sensitised to electrospray mass spectrometry. We believe this simple construct now renders all substrates visible to high throughput mass specroscopic analysis.

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